

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



APR



(43) International Publication Date
13 May 2004 (13.05.2004)

PCT

(10) International Publication Number
WO 2004/040408 A2

(51) International Patent Classification⁷: G06F [RU/US]; 161 Winding River Road, Needham, MA 02492 (US).

(21) International Application Number: PCT/US2003/033509 (74) Agent: HENNESSEY, Gilbert, H.; Fish & Richardson P.C., 225 Franklin Street, Boston, MA 02110-2804 (US).

(22) International Filing Date: 23 October 2003 (23.10.2003) (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

✓ (25) Filing Language: English (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

✓ (26) Publication Language: English

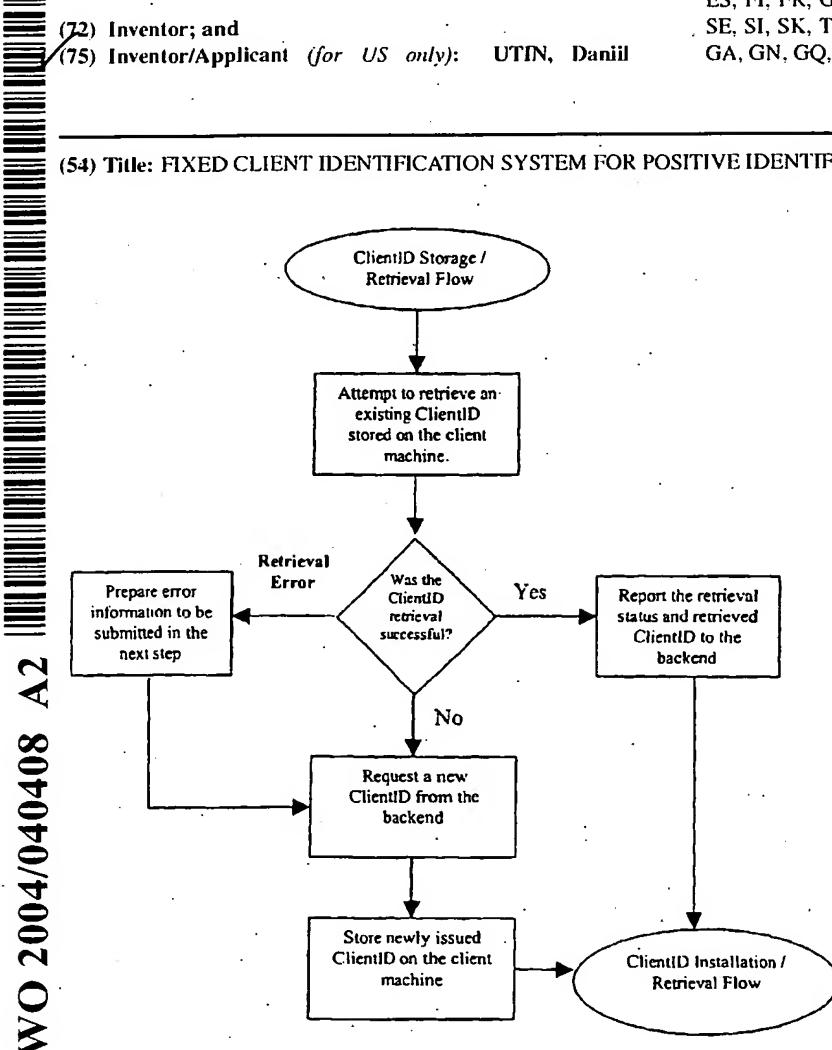
✓ (30) Priority Data: 60/421,285 25 October 2002 (25.10.2002) US

✓ (71) Applicant (for all designated States except US): GRAND VIRTUAL, INC. [US/US]; 100 Cambridge Park Drive, Cambridge, MA 02140 (US).

✓ (72) Inventor; and (75) Inventor/Applicant (for US only): UTIN, Daniil

[Continued on next page]

(54) Title: FIXED CLIENT IDENTIFICATION SYSTEM FOR POSITIVE IDENTIFICATION OF CLIENT TO SERVER



(57) Abstract: A tamperproof ClientID system to uniquely identify a client machine is invoked upon connection of a client application to a backend. Upon initial connection, the backend issues a unique ClientID containing a checksum. The client application prepares at least two different scrambled versions of the ClientID and stores them in respective predetermined locations on the client machine. Upon subsequent connection to the backend, the client application retrieves and unscrambles the values at the two locations, verifies the checksums and compares the values. If the checksums are both correct and the values match, the ClientID value is sent to the backend, otherwise the client application sends an error code.

WO 2004/040408 A2



Published:

— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/33509

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 11/30, 12/14; H04L 9/00, 9/32
US CL : 713/200,201

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 713/200,201, 150, 161

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, E	US 6,711,682 B1 (CAPPS) 23 March 2004 (23.04.2004), column 2 lines 2-36, column 3 lines 44-65, column 9 line 41 - column 10 line 39.	1, 6, 7, 8
A, E		----- 2-5
Y	US PUB 2002/0120861 A1 (KAGIWADA et al) 29 August 2002 (29.08.2002), [0008]-[0011], [0033]-[0034], [0126].	1, 6, 7, 8
Y, P	US PUB 2003/0084291 A1 (YAMAMOTO et al) 1 May 2003 (01.05.2003), [0071], [0075], [0078], [0080], [0156], [0161].	1, 6, 7, 8
A, P	US PUB 2002/0197985 A1 (TOURRILHES et al) 26 December 2002 (26.12.2002), [0006] and [0010]-[0015].	1-8
A	US PUB 2002/0116515 A1 (HASHIMOTO) 22 August 2002 (22.08.2002), [0010]-[0025].	1-8

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&c" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

19 May 2004 (19.05.2004)

Date of mailing of the international search report

08 JUN 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Faxsimile No. (703)305-3230

Authorized officer

for
Ayaz Sheikh

Telephone No. (703) 305-3900